

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3894412	Quote #:	Sales Order #: 0905917805
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: NOBLE REP	
Well Name: SLW RANCH STATE		Well #: BB07-627	API/UWI #: 05-123-47404-00
Field: WATTENBERG	City (SAP): GILL	County/Parish: WELD	State: COLORADO
Legal Description: 7-5N-63W-1711FSL-60FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 517	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA/HB31357		Srvc Supervisor: Kyle Bath	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST 230 degF
Job depth MD	16909ft		Job Depth TVD
Water Depth			Wk Ht Above Floor
Perforation Depth (MD)	From		To

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36			0	1932	0	1932
Casing		5.5	4.892	17			0	16911	6600	16911
Open Hole Section			8.5				1932	16911	6600	16911

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5			16911	Top Plug	5.5		HES
Float Shoe	5.5				Bottom Plug	5.5		HES
Float Collar	5.5				SSR plug set	5.5		HES
Insert Float	5.5				Plug Container	5.5		HES
Stage Tool	5.5				Centralizers	5.5		HES

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Prime Cement Spacer Base - RKS/SE	TUNED PRIME CEMENT SPACER SYS	120	bbl	11.5	3.87				
	1 lbm/bbl	FE-2 (100001615)								

145.09 lbm/bbl	BARITE, BULK (100003681)
3.50 lbm/bbl	SEM-94P, 35 LB SACK - (1023987)
42 gal/bbl	FRESH WATER
3.50 lbm/bbl	SEM-93P, 35 LB SACK - (1023977)

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ElastiCem CAP	ELASTICEM (TM) SYSTEM	140	sack	13.2	1.71		8	8.31
8.31 Gal		FRESH WATER							
0.95 %		SCR-100 (100003749)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ElastiCem w/ CBL	ELASTICEM (TM) SYSTEM	450	sack	13.2	1.71		8	8.32
0.60 %		SCR-100 (100003749)							
8.32 Gal		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	NeoCem NT1	NeoCem TM	1107	sack	13.2	2.08		8	10.18
0.13 %		SCR-100 (100003749)							
0.13 %		FE-2 (100001615)							
10.18 Gal		FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Displacement Fluid	Displacement Fluid	20	bbl	8.33				
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
6	Displacement	Displacement	371	bbl	8.33				

Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint
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Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	80 °F
Cement Temperature:	## °F °C	Plug Displaced by:	8.4 lb/gal	Disp. Temperature:	80 °F
Plug Bumped?	Yes	Bump Pressure:	1800 psi	Floats Held?	Yes
Cement Returns:	0 bbl	Returns Density:	## lb/gal kg/m3	Returns Temperature:	## °F °C
Comment					

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comments
Event	1	Check Floats	8/22/2019	14:30:00	CREW CALLED OUT, REQUESTED ON LOCATION AT 22:00
Event	2	Depart Yard Safety Meeting	8/22/2019	17:45:00	DISCUSS ROUTE AND HAZARDS
Event	3	Crew Leave Yard	8/22/2019	18:00:00	CREW DEPART YARD
Event	4	Arrive at Location from Service Center	8/22/2019	20:30:00	ARRIVE ON LOCATION, RIG RUNNING CASING UPON HES ARRIVAL, RECIEVED NUMBERS FROM THE CO REP, TD 16911, TP 16911.1, SJ 47.46, CSG 5.5" 17#, PREV CSG 9 5/8 @ 1931.9, HOLE 8.5, MUD 9.45 VIS 43, TVD 6600
Event	5	Assessment Of Location Safety Meeting	8/22/2019	20:45:00	DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, WATER TEST, TEMP 80, CHLORIDES 0, PH 7
Event	6	Safety Meeting - Pre Rig-Up	8/22/2019	21:00:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	7	Safety Meeting - Pre Job	8/23/2019	05:45:00	PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP, RIG CIRCULATE FOR 1.5 HRS 9 BPM 1260 PSI
Event	8	Start Job	8/23/2019	06:02:17	
Event	9	Drop Bottom Plug	8/23/2019	06:03:01	LAUNCH BOTTOM PLUG

Event	10	Test Lines	8/23/2019	06:05:16	TEST LINES TO 4550 PSI
Event	11	Other	8/23/2019	06:13:03	TEST RIG STAND PIPE TO 2500 PSI AS PER CO REP
Event	12	Check Weight	8/23/2019	06:19:23	
Event	13	Pump Spacer 1	8/23/2019	06:20:12	PUMP 120 BBLS TUNED SPACER W/SURFACTANTS 11.5 PPG, 7 BPM 560 PSI, CALCULATED TOS SURFACE
Event	14	Drop Bottom Plug	8/23/2019	06:40:34	LAUNCH BOTTOM PLUG
Event	15	Pump Cement	8/23/2019	06:40:46	MIX AND PUMP 140 SKS 42.6 BBLS CAP CEMENT W/OUT SUPER CBL 13.2 PPG, 1.71 FT3/SK, 8.31 GAL/SK 6 BPM 430 PSI, CALCULATED TOCC 2460
Event	16	Check Weight	8/23/2019	06:47:49	
Event	17	Pump Lead Cement	8/23/2019	06:49:06	MIX AND PUMP 450 SKS 137 BBLS LEAD CEMENT 13.2 PPG, 1.71 FT3/SK, 8.32 GAL/SK 8 BPM 640 PSI, CALCULATED TOLC 3504
Event	18	Check Weight	8/23/2019	06:51:59	
Event	19	Check Weight	8/23/2019	06:52:14	
Event	20	Check Weight	8/23/2019	07:08:10	
Event	21	Pump Tail Cement	8/23/2019	07:09:56	MIX AND PUMP 1107 SKS 410 BBLS TAIL CEMENT 13.2 PPG, 2.08 FT3/SK, 10.18 GAL/SK 8 BPM 700 PSI, CALCULATED TOTC 6862
Event	22	Check Weight	8/23/2019	07:16:15	
Event	23	Shutdown	8/23/2019	08:01:24	
Event	24	Clean Lines	8/23/2019	08:05:42	WASH PUMPS AND LINES

Event	25	Drop Top Plug	8/23/2019	08:08:28	LAUNCH TOP PLUG
Event	26	Pump Displacement	8/23/2019	08:11:27	PUMP 391 BBLS FRESH WATER DISPLACEMENT, FIRST 20 BBLS WITH MMCR, REST OF DISPLACEMENT WITH CO REP SUPPLIED BIOCID 10 BPM 2450 PSI
Event	27	Bump Plug	8/23/2019	08:56:49	BUMP PLUG AT 1800 PSI TOOK TO 2450 PSI
Event	28	Check Floats	8/23/2019	09:01:46	CHECK FLOATS, FLOATS HELD TOO 4 BBLS BACK TO TRUCK
Event	29	End Job	8/23/2019	09:05:49	
Event	30	Safety Meeting - Pre Rig-Down	8/23/2019	09:10:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	31	Depart Location Safety Meeting	8/23/2019	10:50:00	DISCUSS HAZARDS AND ROUTE
Event	32	Crew Leave Location	8/23/2019	11:20:00	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Job Chart

